

ZHIVAGO, A.

"Major aspects of Albanian geomorphology"

Buletin. Seria Shkencat Natyrore. Tirane, Albania. Vol. 11, no. 1, 1957

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclassified

ZHIVAGO, A. V.

20-5-34/48

AUTHORS: Bezrukov, P. L., Boychenko, I. G., Zhivago, A. V., Zenkevich, N. L., Kanayev, V. F. and Udintsev, G. B.

TITLE: New Data on the Rules Governing the Morphology of Submarine Relief (Novyye dannyye o zakonomernostyakh stroyeniya podvodnogo relyefa)

PERIODICAL: Doklady AN SSSR, 1957, Vol. 116, Nr 5, pp. 841 - 844 (USSR)

ABSTRACT: The cooperation of the two institutes given under "association" facilitated the obtaining of the characteristic of some outlines of the morphology of the submarine relief, together with the results of foreign expeditions. These outlines were formerly either not to a great extent known or underestimated. Conceptions of the borders of greatest morphological areas or of the forms of first order like the submarine margins of the continents, the zone of the continental slope, and of the ocean gulf ("lozhe okeana") could be defined exactly; furthermore the rules governing the order of the great relief forms (forms of second order), as well as the character of the connections in the order of smaller forms could be explained. In the coastal zone and in the shallow water zone the bottom of the sea is nearly everywhere levelled and slopes towards the sea extremely softly. This bottom area is bordered by a bend of the bottom, towards the sea. Behind it the bottom changes into a

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more articulated area. This threshold does not lie deeper than 300 m, on an average of 130 m. The levelled area is towards the sea replaced by either the area of the submarine margin of the continent or by the zone of the continental slope. The latter has considerable inclinations as well as a very complicated relief. The origin of the levelled area of the bottom in shallow water is to be assumed to be in connection with the abrasion-accumulative levelling processes. The surfaces of the submarine margins of the continents often cover large areas in comparatively shallow places of the ocean. As a rule they continue the coastal plains of the continent. Their breadth and depth vary in vast borders; single sections lie in a depth of from 1000 to 1500 m. Up to now the technical terms: continental abyss and continental shelf were not used precisely enough. The expression continental slope does not reflect precisely the fundamental traits of the transition zone from the continental area to the ocean "sprout" ("lozhe okeanov"). It would be more precise to call it "zone of the continental slope". Examples for a very complicated and a more simple structure are given. The upper margin of the zone of the continental slope corresponds either to the exterior margin of the levelled area of the coast-near shallow water or to the exterior margin of the submarine marginal zone of the continent. Sometimes there are also compara-

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tively steep steps. In such cases one can speak of a taking part of the continental marginal zone in the development of the zone of the continental slope. The lower margin of the zone of the continental slope is rather clearly characterized by a bend of the bottom area in the transition to the ocean sprout or by a still sharper bend in the transition to the flat bottom area of the oceanic deep sea channels which in many regions are bound to the lower part of the continental slope. The ocean sprout is characterized by a great variety of forms and relief types: elevations, mountain ridges, and single mountains occur frequently. The great relief forms (of second order) are distributed in all parts of the oceanic bottom. It is difficult to observe the continuations of the great relief forms of the continent in the levelled part of the coast, they are, however, better marked in the zone of the continental slope. In several cases a connection between the relief forms of the zone of the continental slope and those of the ocean sprout becomes visible. Towards the land they are only seldom continued on the continental margin. The great variety of the small ground relief forms can be comprised in 3 groups: 1.) a relief in which the traits of the original relief are long time conserved which is covered by a

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New Data on the Rules Governing the Morphology of Submarine Relief

sedimentary cover of the same thickness. 2.) the levelling relief the original unevenness of which is filled in ; the thickness of the sediments increases here in the depressions, and 3.) a levelled relief in which the sediments cover all unevenness of the original relief; in the depressions the layers are much thicker and broken at the elevations. There are 7 references, 4 of which are Slavic.

ASSOCIATION: Institute for Oceanology, Institute for Geography AN USSR
(Institut okeanologii, Institut geografii Akademii nauk SSSR)

PRESENTED: May 13, 1957, by I. P. Gerasimov, Academician

SUBMITTED: June 11, 1957

AVAILABLE: Library of Congress

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ZHIVAGO, A. V.

"The Bottom Relief Genetic Types of the Southern Part of the Indian and
Pacific Oceans."
report to be submitted for the Int'l. Oceanographic Cong. New York City,
31 Aug - 11 Sep 1959.

(Inst. Oceanology, Moscow)

PHASE I BOOK EXPLOITATION

SOV/4067

Savarenenskiy, Ye.F., Doctor of Physics and Mathematics, V.G. Tishchenko,
A.Ye. Svyatlovskiy, A.D. Dobrovolskiy, and A.V. Zhivago

Tsunami, 4-5 noyabrya 1952 g. (Tsunamis of November 4-5, 1952) Moscow, Izd-vo
Akademii nauk SSSR, 1958. 60 p. (Series: Akademiya nauk SSSR. Sovet po
seismologii, Byulleten', no. 4) Errata slip inserted. 1,500 copies printed.

Resp. Ed.: Ye.F. Savarenenskiy, Doctor of Physics and Mathematics; Ed. of Publishing
House: K.P. Gurov; Tech. Ed.: S.M. Polasitskaya.

PURPOSE: This publication is intended for seismologists, oceanographers,
meteorologists and geophysicists.

COVERAGE: This collection contains selected articles from a report prepared
jointly by Ye.F. Savarenenskiy, A.D. Dobrovolskiy, V.I. Vladimirov, L.N. Sretenskiy,
A.Ye. Svyatlovskiy, A.V. Zhivago, V.G. Tishchenko, and G.A. Skuridin under the
auspices of the Academy of Sciences USSR, on a tsunami which hit the Pacific
Coast of Kamchatka and the northern Kuril Islands on November 4-5, 1952. The

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Tsunamis of November 4-5, 1952

SCV/4067

REF ID: A6565

articles contain eyewitness accounts, an analysis of the causes and effects, information on the origin, characteristics, structure and trajectory of the tsunami, and the effect of topographic features on various parameters. Source material for the report was obtained from: 1) data of the seismological service; 2) a preliminary report on the Kamchatka earthquake by I.I. Kutchubeyev, B.K. Klimov, F.I. Monakhov, and M.D. Percher of the Sakhalin Branch of the Academy of Sciences USSR; 3) the results of investigations at several points on the Kuril-Kamchatka coast by A.Ye. Svyatloveskiy and B.I. Plyp of the Laboratory of Vulcanology, geologist A.H. Ryabikova of Lekcorpoyekt, and V.G. Tishchenko; 4) data of the hydroseismological service on the heights of the tsunami waves at different points. The introduction and chapter I were written by Professor Ye.F. Sverdrup and V.G. Tishchenko of the Geofizicheskiy Institut AN SSSR (Geophysical Institute, Academy of Sciences USSR), chapter II by A.Ye. Svyatloveskiy, Candidate of Geology and staff member of the Laboratory of Vulcanology, Academy of Sciences USSR, and chapter III by Professor Dobrovolskiy of the Institut okeanologii AN SSSR (Institute of Oceanology, Academy of Sciences USSR), and A.V. Zhivago, Candidate of Geography and staff member of the Institut geografii AN SSSR (Institute of Geography, Academy of Sciences USSR). The text contains a map of earthquake epicenters for the Kuril-Kamchatka region compiled by N.A. Linden, Candidate of Physics and Mathematics and member of the Geophysical Institute. There are 12 references: 2 Soviet, 9 English, and 1 German.

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ZHIVAGO, A. V.

KRAVTSOV N.D.

3(5) PLATE I BOOK EXPEDITION 107/2637

• Akademicheskii Sbornik. Komplekksnye antarkticheskiiye izdaniya.

Osnovnye shpodditeli na diesel' - letniiyeh "Opi" "1955-1956. No. 1".
(Opisaniye ekspeditsii abord shpodditeli "Opi" na diesel' - letniiyeh "Opi" "1955-1956". Moscow, Izd-vo Akademii Znanii, 1958. 237 p. 2,000 copies printed.)

Sponsoring Agency: Akademicheskii Sbornik. Sovet po antarkticheskim Isledovaniyam. Chief Ed.: N. P. Kort. Akademicheskii Sbornik. Chief, Marine Antarctic Expedition, Chairman, 1st Trip of the Scientific Antarctic Expedition, USSR Academy of Sciences; Editorial Board: A. A. Arzamashev (Chief, Main Administration of the Northern Sea Route, MPA), V. D. Bakayev (Minister of Sea Transport), V. P. Burdinov (Deputy Chief, Main Administration of the Northern Sea Route), A. A. Zolotukhin (Chief, Main Administration of the Northern Sea Route), A. A. Zolotukhin (Chief, Main Administration of the Northern Sea Route).

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Hydrogeological Service), V. O. Kort (Professor, Chief, 1st trip of the Marine Antarctic Expedition, USSR Academy of Sciences), N. M. Semov (Chief, Combined Antarctic Expedition, USSR Academy of Sciences), V. V. Prolyor (Bibliographer, Director of Scientific Research Institute, Main Administration of the Northern Sea Route), N. F. Danilevskiy (Candidate of Geographical Sciences), N. V. Danilevskiy (Candidate of Geophysical Sciences), N. V. Danilevskiy (Candidate of Geometrical Sciences), USSR Academy of Sciences), Z. G. Shchotova (Chief, Geological Bureau, Leningrad), and B. S. Shchotova (Tech. Ed.; P. A. Kuznetsov).
REASON: This volume is intended for the general reader.

CONTENTS: The Report of the Combined Antarctic Expedition of the MPA Sbornik, headed by N. N. Semov, contains an account of the work on the first trip of the Diesel-electric ship "Opi" to the Antarctic and the aims and problems involved, including the establishment of an observatory at Mirny. A major part of the book is devoted to scientific research in seismology, meteorology and seismometry.

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executed in cooperation with the MPA. Purpose. A large part of the observations and preliminary findings cited are in the field of hydrology and hydrochemistry, marine geology, biophysics, hydrography, and hydrobiology. A roster of the authors of the expedition together with their specialities is included. There are 72 figures including maps. Bibliographical references accompany separate chapters.

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Foreword

- I. Purpose of the Expedition and Its Preparation (V. O. Kort) 1-48
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III. Preparation personnel

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ZHIVAGO, A.V.

10-58-2-2/30

AUTHOR:

Lisitsyn, A.P., Zhivago, A.V.

TITLE:

Submarine Relief and Sediments in the Southern Part of the Indian Ocean (Rel'yef dna i osadki yuzhnay chasti indiyskogo okeana) First Report (Sooobshcheniye 1-ye)

PERIODICAL:

Izvestiya Akademii nauk SSSR - Seriya geograficheskaya, 1958
Nr 2, pp 9-21 (USSR)

ABSTRACT:

During the second voyage of the Antarctic expedition of the vessel "Ob'", organized by the AS USSR, complex oceanographic research work was done in the southern part of the Indian Ocean between 20 and 100° east longitude (Figure 1). A profile has been prepared of the Indian Ocean comprising the area from the Antarctic to the mouth of the Ganges along 97° east longitude. Sonic-depth measurements have been carried out in the eastern and central parts of the Atlantic Ocean including Romansh Depression and areas west of the Central Atlantic Ridge, the northern part of the Indian Ocean from Colombo to the Arabian Gulf, the Red and the Mediterranean Sea. Research of the sea bottom was carried out with the Soviet self-recorder sounding device, NEL-5. The following Soviet scientists took part in the expedition: A.P. Lisitsyn, A.V. Zhivago, A.F. Beresnev, Ye.I. Gordeyev, S.Ye. Alferov, P.N. Fominykh, V.V. Shiporin, A.F. Shmyrev, A.I.

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Submarine Relief and Sediments in the Southern Part of the Indian Ocean
First Report

Kuvarzin and Ye.I. Sidorov. A detailed, characteristic picture of the bottom relief of the Indian Ocean is given in Figure 7. Apart from the discovery of the morphological type of the bottom, the research of the submarine relief made it possible to correct former mistakes made in marking the coastal line, to establish the limits of some volcanic elevations and to map a number of new upheavals. A pronounced predominance of the volcanic type relief on the bottom of the southern ocean has been discovered. The well-preserved forms suggest a recent origin. In many areas a process of sedimentation is taking place in the irregular structure formed by volcanic activity. This process of accumulative leveling is only beginning. Only in individual sections of weak volcanic activity does this process form even-wavy plains. The echograms give a good picture of the thickness of the surface sediments and their stratification. Especially clear recordings have been obtained for the deep-water zone south of the isles of "Kroze" where a thickness of about 15 m has been recorded for several layers. The important part played by disjunctive dislocations was disclosed, as far as

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1. Oceanography 2. Indian Ocean--Characteristics

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Submarine Relief and Sediments in the Southern Part of the Indian Ocean
First Report

the formation of big and minor relief forms of the shelf and matrix slopes of the Antarctic is concerned. Big ruptures and upheavals accompanied by minor breaks and dislocations of the rocks give evidence of powerful tectonic tensions existing in the wide zone of contact between the continent and the oceanic bottom. There are five graphs and two charts.

ASSOCIATION: Institut okeanologii AN SSSR (Institute of Oceanography of the AS USSR) Institut geografii AN SSSR (Institute of Geography of the AS USSR)

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ZHIVAGO, A.V., kand.geol.nauk; LISITSYN, A.P., kand.geol.nauk

Bottom relief and sediments of the Southern Ocean. Inform.biul.
Sov.antark.eksp. no.3:21-22 '58. (MIRA 12:4)

1. Moskovskiy gosudarstvennyy universitet i Institut okeanologii
AN SSSR.
(Antarctic regions--Ocean bottom)

ZHIVAGO A.V.

AUTHOR: Lisitsyn, A.P., and Zhivago, A.V. 10-58-3-4/29

TITLE: Bottom Relief and Sediments in the Southern Part of the Indian Ocean (Rel'yef dna i osadki yuzhnay chasti Indiyskogo okeana). Second Report (Soobshcheniye 2-ye)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, 1958, Nr 3, pp 22-36 (USSR)

ABSTRACT: The article is the 2nd report on the second passage of the Soviet naval Antarctic expedition in 1956/57, covering a considerable part of the Indian Ocean and its Antarctic areas. The authors present the following detailed description of the bottom sediments discovered: 1) terrigenous sediments, 2) volcanicogenous sediments, 3) organogenous sediments, 4) chemogenous sediments, 5) red deep-water clay. Examinations and analyses have been carried out by Lysitsyn, A.P. Morozova, A.P. Zhuze, I.P. Svirenko, N.A. Minskiy, N.S. Dobronravova, Z.A. Glagoleva, P. Ushakov and G. Belyayev. There are 4 maps, 1 table, and 13 references, 4 of which are Soviet, 5 English, and 4 German.

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10-58-3-4/29

Bottom Relief and Sediments in the Southern Part of the Indian Ocean.
Second Report

ASSOCIATION: Institut okeanologii AN SSSR (Oceanographic Institute of the AS USSR), Institut geografii AN SSSR(Geographical Institute of the AS USSR)

AVAILABLE: Library of Congress

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1. Indian Ocean bottom - Analysis 2. Sedimentation -
 Indian Ocean

SOV/10-58-6-9/21

AUTHORS: Lisitsyn, A.P. and Zhivago, A.V.

TITLE: Contemporary Methods of Investigating the Geomorphology and
Sediments of the Floor of the Seas of the Antarctic (Sovremennyye
metody izucheniya geomorfologii i osadkov dna morey Antarktiki)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geograficheskaya, 1958,
Nr 6, p 88-97 (USSR)

ABSTRACT: After stressing the difficulties of working under the conditions
usually prevailing in Antarctica, the authors describe contem-
porary research methods on the geomorphology and sediments of the
floor of the sea. The entire research can be divided into 4 basic
items: 1) research on the geomorphology of the floor of the sea
with sounding leads; 2) the study of geological structure and
history of the floor of the sea from samples gathered by dredges,
trawls and tubes; 3) the definition of the magnitude of loose
sediments on the floor of the sea and the study of its relief

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SOV/10-58-6-9/21

Contemporary Methods of Investigating the Geomorphology and Sediments
of the Floor of the Seas of the Antarctic

by seismo-acoustic methods; and 4) the study of the present sedimentation processes based on the quantitative and qualitative composition of particles suspended in sea water. In item 1, sounding leads of the Soviet NEL-5 type (for a depth of 2,000 m) and Kelvin-Hughes MS-26-K sounding devices (for greater depths) were used. In item 2, an Okean-50 dredge and uniflow tubes constructed by Sysoyev-Kudinov, or PGT-59 piston tubes designed by the Institute of Oceanology, AS USSR were used. In item 3, a specially designed (by the same institute) seismic station "Ekho-56" was used. It was designed to operate on waves reflected from one ship, on waves refracted or reflected from two ships, or between one ship and the shore.

In item 4, research on suspended particles was done with a new semiautomatic installation for membranous ultra-filtration; plate-separators were used. For sampling sea water, a special bathometer was constructed. The water was then collected into special settling containers for the necessary laboratory research. All these installations are described in detail. There are 4 photos and 7 Soviet references.

Association: Institut geografii AN SSSR ; Institut Okeanografii AN SSSR
(Inst. of Geography, Acad. Sci. USSR; Inst. of Oceanography, AS USSR)

3/2

ZHIVAGO, A. V.

"Geomorphology of the Southern Ocean Floor"

report to be submitted for the Intl. Geographical Union, 10th General Assembly
and 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

ZHIVAGO, A. V., AND UDINTSEV, G. B.

"Geomorphology of sea beds in the USSR and modern problems of Marine geomorphology"

report to be submitted for the Intl. Geographical Union, 10th General Assembly and the 19th Intl. Geographical Congress, Stockholm, Sweden, 6-13 August 1960.

PHASE I BOOK EXPLOITATION

SOV/5462

Sovetskaya antarkticheskaya ekspeditsiya, 1955.

Vtoraya morskaya ekspeditsiya na d/e "Ob'" 1956-1957 gg.; nauchnyye rezul'taty
(Second Marine Expedition on the Diesel-Electric Ship "Ob'", 1956-57; Scien-
tific Results) Leningrad, Morskoy transport, 1960. 163 p. (Series: Its:
[Materialy] no. 7) 1,200 copies printed.

Sponsoring Agency: Mezhdunarodnyy geofizicheskiy god and Arkticheskiy i
antarkticheskii nauchno-issledovatel'skiy institut.

Ed. (Title page): I.V. Maksimov, Doctor of Geographical Sciences, Professor;
Ed.: Ye. I. Oksanova; Tech. Ed.: O. I. Kotlyakova.

PURPOSE: This book is intended for marine geologists and hydrologists.

COVERAGE: This is a collection of 9 articles on the hydrogeological and geo-
logical findings of the Second Soviet Marine Expedition, sponsored by the
Arctic and Antarctic Scientific Research Institute of the Ministry of the
Merchant Marine of the USSR as part of the International Geophysical Year
program. The expedition, conducted on the diesel ship "Ob'" during 1956-57,

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Second Marine Expedition (Cont.)

SOV/5462

covered the entire Indian Ocean and the coast of Antarctica between 0 and 120° east longitude. The present volume, the seventh and last in a series on the Second Expedition, describes the work of the Expedition in investigating the following: The geomorphology of the sea bottom, by means of sounding devices; the geological structure and profile of the East Antarctic waters and the southern part of the Indian Ocean, through the collection of benthic deposits; the seismic-acoustical determination of the thickness of friable bottom deposits; analysis of surface and depth suspensions; the relief of the bottom of the Davis Sea and the area north of it; the Gauss-Kerguelen underwater range; the continental slope and shelf of Antarctica between 20 and 100° east longitude and 40 and 70° south latitude; the geomorphology of Queen Maud Land and Queen Mary Coast; glacier exaration; seasonal quantitative and qualitative longitudinal and latitudinal distribution of plankton in the Antarctic sector of the Indian Ocean; arctic fauna, including whales, seals, birds, fish, marine parasites, and microorganisms. The articles are written by members of the Institut okeanologii AN SSSR (Institute of Oceanology AS USSR); Institut geografii AN SSSR (Institute of Geography AS USSR), Zoologicheskiy institut AN SSSR (Zoological Institute AS USSR), and Institut rybnogo khozyaystva i okeanografii (Institute of Fish Industries and Oceanography). No personalities are mentioned. Each article is accompanied by references.

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Second Marine Expedition (Cont.)

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Second Marine Expedition (Cont.)

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AVAILABLE: Library of Congress (G860.858)

JA/dwm/mas
9-20-61

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ZHIVAGO, A. V.

PHASE I BOOK EXPLOITATION

SOV/5331

International Geological Congress. 21st, Copenhagen, 1960.

Morskaya geologiya (Marine Geology) Moscow, Izd-vo AN SSSR, 1960.
205 p. 2,500 copies printed. (Series: Doklady sovetskikh
geologov, problema 10)

Editorial Board: P. L. Bezrukov, Resp. Ed.; A. V. Zhivago, V. P.
Zenkovich and G. B. U dintsev; Ed. of Publishing House: V. S.
Sheynman; Tech. Ed.: V. Karpov.

PURPOSE: This book is intended for geologists and oceanographers.

COVERAGE: The book contains 18 articles representing the reports given by Soviet geologists at the 21st International Geological Congress. Individual articles deal with the bottom topography, sedimentation, and tectonics of oceans (Western Pacific and Southern Indian), as well as the geomorphology and tectonics of the Black and Caspian Seas, and Soviet sectors of the Baltic. An English résumé accompanies each article. No personalities

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Marine Geology

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are mentioned. References follow individual articles.

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ZHIVAGO, A.V., kand.geogr.nauk

On the Eastern Island. Nauka i zhizn' 27 no.7:44-49 J1 '60.
(MIRA 13:7)

(Eastern Island--Description and travel) (Scientific expeditions)

KLEPIKOV, V.V., kand. geogr. nauk; MOROSHKIN, K.V.; BOGOYAVLENSKIY, A.N.;
NAZAROV, V.S.; MAKSIMOV, B.A.; ZHIVAGO, A.V.; BRODSKIY, K.A.;
KOLTUN, V.M.; ANDRIYASHEV, A.P.; PAKHAREVA, M.M., red.; KOTLYAKOVA,
O.I., tekhn. red.

[Transactions of the Soviet Antarctic Expedition] Trudy Sovetskoi
antarkticheskoi ekspeditsii, 1955. Leningrad, Izd-vo "Morskoi
transport." Vol.22. [Third Sea Expedition of the diesel-electric ship
Ob', 1957-1958; observational data] Tret'ia morskaia ekspeditsiia na
d/e "Ob'" 1957-1958 gg.; materialy nablyudenii. Pod red. V.V.Klepiko-
va. 1961. 233 p. (MIRA 14:11)

1. Sovetskaya antarkticheskaya ekspeditsiya, 1955.
(Antarctic regions—Oceanographic research)

PICHOVSKIY, Vladimir Vladimirovich; PODOBEDOV, N.S., prof., retsenzent;
BOGOMOLOV, I.A., dotsent, retsenzent; GELLER, S.IU., doktor geograf.
nauk, retsenzent; BLAGOVOLIN, N.S., nauchnyy sotrudnik, retsenzent;
BOGDANOVA, N.M., nauchnyy sotrudnik, retsenzent; DOSKACH, A.G.,
nauchnyy sotrudnik, retsenzent; ZHIVAGO, A.V., nauchnyy sotrudnik,
retsenzent; RANTS'MAN, Ye.Ya., nauchnyy sotrudnik, retsenzent; NIKOLAEV,
N.I., prof., retsenzent; DOEROVOL'SKIY, V.V., dotsent, retsenzent;
VOSKRESENSKIY, S.S., red.; SHAMAROVA, T.A., red.ind-va; PREIS, E.M.,
tekhn.red.

[Geomorphology and fundamentals of geology] Geomorfologija s osnovami
geologii, Riga, Izd-vo geodez.lit-ry, 1961. 283 p.

(MIRA 14:12)

1. Nachal'nik otdela geomorfologii Instituta geografii AN SSSR (for Geller).
2. Otdel geomorfologii Instituta geografii AN SSSR (for Blagovolin, Bogda-
nova, Doskach, Zhivago, Hants'man).

(Geomorphology) (Geology)

ZHIVAGO, A. V.

"Outlines of southern ocean geomorphology."

To be submitted for the 10th Pacific Science Congress, Honolulu, 21 Aug - 6 Sep 1961.

Institute of Geography.

ZHIVAGO, H. V.

Papers submitted for the 1958 Pacific Science Congress, Honolulu, Hawaii 21 Aug.
6 Dec 1960.

- SUDAROV, N. A.**, Marine Hydrophysical Institute, Academy of Sciences USSR - "Investigation into mineralization of organic substances of dead plankton under anaerobic conditions" (Section VII.C.1)
- SHCHERBINA, D. A.**, Institute of Oceanology - Some regularities concerning the annual distribution of chemical characteristics in the waters of the central part of the Pacific" (Section VI.C.1)
- ZHURAVLIY, S. A.**, All-Russian Scientific Research Institute of Marine Fishing and Oceanography - "Marine "environment" - a new means for marine fishery investigation" (Section III.C.1)
- GRIGOR'EV, N. N.**, Institute of Geodesy - "The distribution of oxygen (Section III.C.1) in the Pacific in connection with food conditions (Section III.C.1)
- SHCHERBINA, D. A.**, Institute of Hydrometeorology of Reservoirs, Academy of Sciences USSR - "The submarine illumination and the primary production of phytoplankton in the sea" (Section III.C.1)
- GRIGOR'EV, N. N.**, Institute of Hydrometeorology of Reservoirs, Academy of Sciences USSR - "The problem of periodic continental connection in the orographic climate" (Section III.A.3)
- GRIGOR'EV, N. N.**, and **GRIGOR'EV, I. A.**, Institute of Oceanology - "The measurement of deep currents with the application of modern hydroacoustic equipment results" (Section VII.D.5)
- GRIGOR'EV, I. A.**, and **GRIGOR'EV, A. A.**, Institute of Oceanology - "Geotrophic currents in the Antarctic sector of the Pacific" (Section VII.D.1)
- GRIGOR'EV, I. A.**, Institute of Geology - "New data on the tectonics of northern Kamchatka" (Section VII.C.)
- GRIGOR'EV, N. N.**, Institute of Hydrology - "The paleogeologic study of the people of Oceans in the USSR" (Section III.3)
- GRIGOR'EV, O. I.**, Institute of Oceanology - "Features of evolution in the bottom topography of the Pacific Ocean" (Section VII.C.1)
- VALDANOVICH, V. A.**, Institute of Geology - "Tectonic zones of the Pacific coast in the USSR as a basis for the subdivision of continental deposits of shale" (Section VII.C.)
- GRIGOR'EV, N. N.**, Institute of Oceanology - "Geographical distribution of abyssal bottom fauna and the problem of vertical zonation" (Section III.C.)
- VITENBERG, G. R.**, Moscow State University, Geographical Faculty - "On the nature of the major zones in east Asia" (Section VII.C.)
- TRABY, G. M.**, Institute of Geology - "The island arches and the peripheral folded areas in the eastern belt of the Pacific belt" (Section VII.C.)
- ZHURAVLIY, T. V.**, and **GRIGOR'EV, I. A.**, Institute of Earth Physics, Lenin O. Yu. Institute - "Some probabilities in interpretation of surface waves of the Pacific" (Section VII.C.2)
- ZHURAVLIY, T. V.**, Institute of Geology - "The tectonic map of Eurasia" (Section VII.C.)
- ZHURAVLIY, T. V.**, Institute of Geology - "The geological history, engineering Academy, Soviet B. M. Khor - Some problems involved with wood studies in southern Asia" (Section III.A.1)
- ZHURAVLIY, T. V.**, Inst. Director, Geographical Museum, Moscow State University - "The population-geographical position of the Sakhalin and the Kuril Islands" (Section VII.C.)
- ZAKHAROV, F. D.**, Institute of Geology - "On the relations between plants" (Section III.C.)
- ZAKHAROV, F. D.**, Institute of Geology - "The biological productivity of the Upper Cretaceous and Paleogene floras of Australia, New Zealand, and Tasmania" (Section III.A.)
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- ZEMENKIN, I. A.**, Institute of Cytology - "Cytophysiological investigation of comparative adaptations of microfossils in the northwestern area of the Pacific Ocean" (Section III.C.)
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CIA-RDP86-00513R002064820018-0

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4. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. I.M. Gubkina (for Li Chzhao-zhen', Uspenskaya). 5. Stavropol'skiy filial Groznetskogo nauchnoissledovatel'skogo neftyanogo instituta (for Golyakov, Shabatin, Borisenko, Miroshnikov).
6. Ministerstvo geologii i okhrany nedr SSSR (for Gratsianova, Budnikov). 7. Glavnyy geolog neftyanogo i gazovogo upravleniya Stavropol'skogo sovmarkhoza (for Belov).

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TITLE: Stratigraphy of the Middle Jurassic Deposits of Dagestan (Stratigrafiya sredneyurskikh otlozheniy Dagestana). Author's abstract of his dissertation for the degree of Candidate of Geological and Mineralogical Sciences, presented to the Vses. n-1. geo.-razved. neft. in-t (All-Union Geological-Prospecting Petroleum Institute), Moscow, 1956.

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D. N.

Card 1/2

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USSR/Agronomy

Fertilizers

Plants - Growth Regulators

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33/49T7

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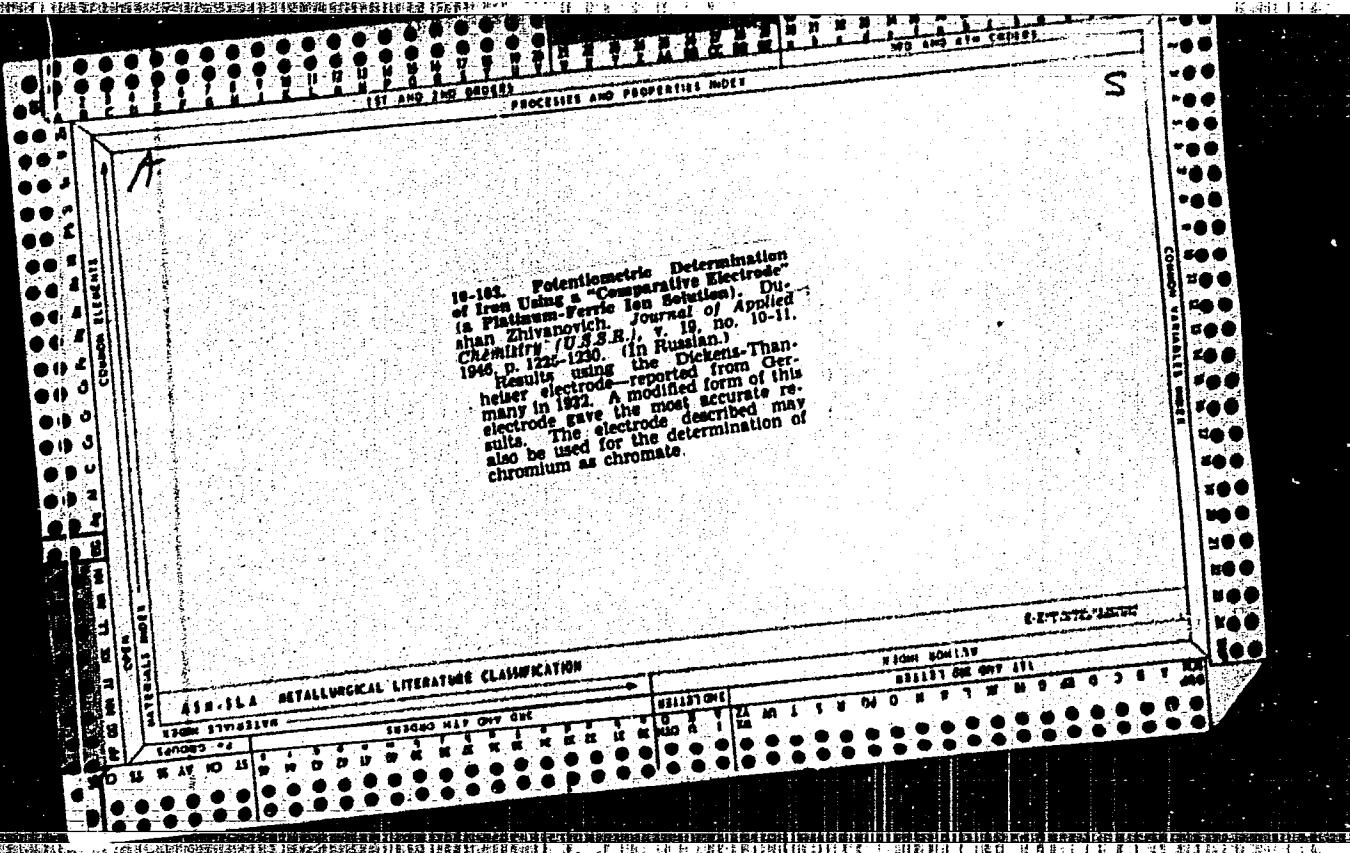
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CIA-RDP86-00513R002064820018-0"

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anat. glist. i embr. 42 no.1:125-126 Ja '62. (MIRA 15:4)

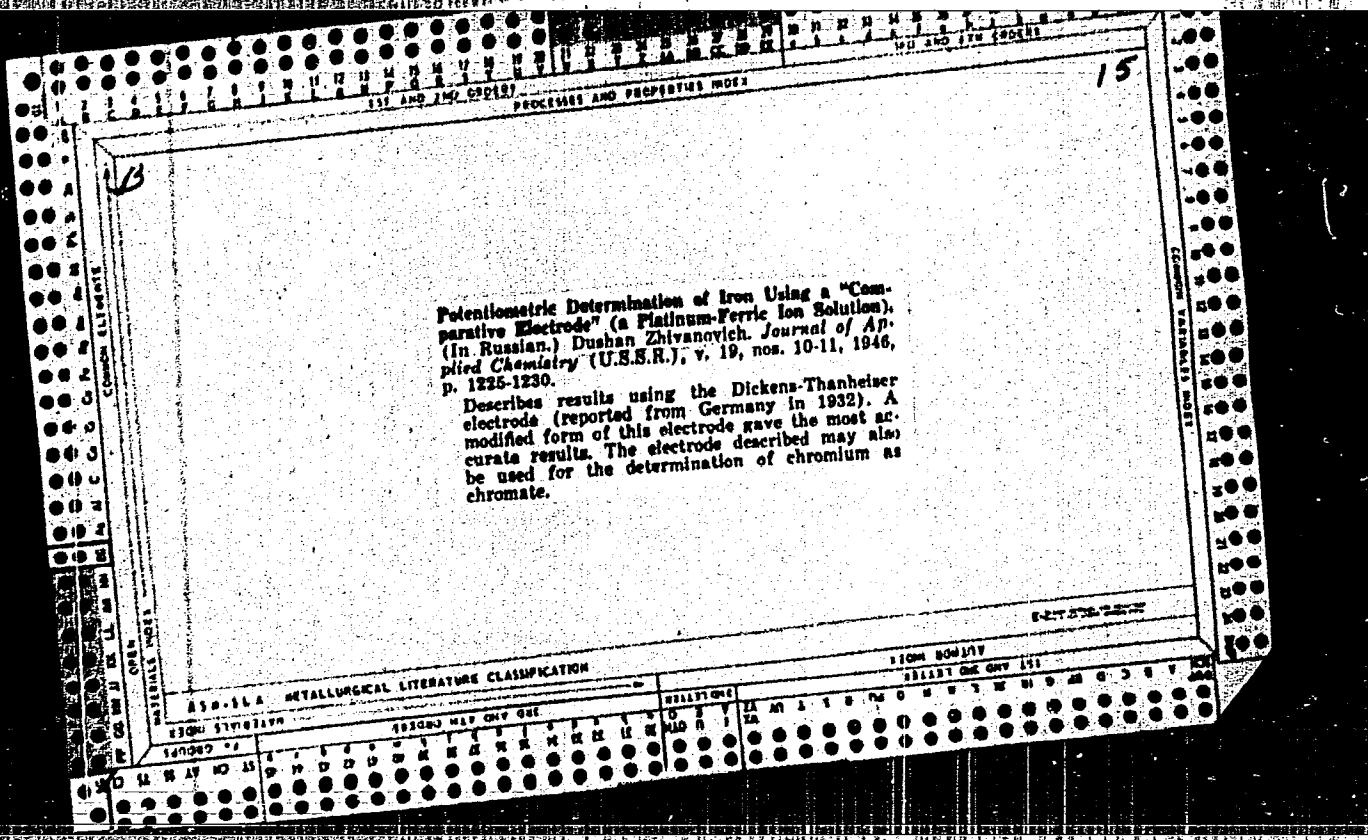
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7
CJ
Potentiometric determination of iron with the aid of a Pt-Fe²⁺ solution comparison electrode. Iulian Zhirkovich (Univ. Belgrade). J. Applied Chem. (U.R.S.S.) 19, 1220-01(1946) (in Russian).—A Pt-Fe²⁺ soln. half-cell is set up against the test soln. of Fe²⁺, and the latter titrated with CrO₄²⁻ until an interposed galvanometer reads zero. The diphenylamine end point is shown as much as 0.50 ml. before the galvanometer end point, no matter how the Fe²⁺ is reduced. If more than 5% Cu²⁺ is present, the Fe²⁺ is first reduced with SnCl₂, with Pt-Mohr's salt as comparison electrode, and titrating the excess with KMnO₄ or dichromate, but not HgCl₂. Where the use of a Pt-Fe²⁺ + Fe³⁺ comparison electrode gave errors as great as 2.1%, the Pt-Fe²⁺ soln. electrode showed errors of less than 0.42%. Cyrus Pekkanan

ABE-SLA METALLURGICAL LITERATURE CLASSIFICATION

1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999
1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999
1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999
1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999
1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999
1000-1099	1100-1199	1200-1299	1300-1399	1400-1499	1500-1599	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	2100-2199	2200-2299	2300-2399	2400-2499	2500-2599	2600-2699	2700-2799	2800-2899	2900-2999	3000-3099	3100-3199	3200-3299	3300-3399	3400-3499	3500-3599	3600-3699	3700-3799	3800-3899	3900-3999	4000-4099	4100-4199	4200-4299	4300-4399	4400-4499	4500-4599	4600-4699	4700-4799	4800-4899	4900-4999	5000-5099	5100-5199	5200-5299	5300-5399	5400-5499	5500-5599	5600-5699	5700-5799	5800-5899	5900-5999	6000-6099	6100-6199	6200-6299	6300-6399	6400-6499	6500-6599	6600-6699	6700-6799	6800-6899	6900-6999	7000-7099	7100-7199	7200-7299	7300-7399	7400-7499	7500-7599	7600-7699	7700-7799	7800-7899	7900-7999	8000-8099	8100-8199	8200-8299	8300-8399	8400-8499	8500-8599	8600-8699	8700-8799	8800-8899	8900-8999	9000-9099	9100-9199	9200-9299	9300-9399	9400-9499	9500-9599	9600-9699	9700-9799	9800-9899	9900-9999



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 - 2. USSR (600)
 - 4. Rivets and riveting
 - 7. Mechanization of riveting operations. Stan.i instr. 23. no. 11, 1952
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GERASIMOV, A.I.; GOROVENKO, L.I.; ZHIVATOVSKIY, P.I.

Complication of pneumoperitoneum circumscribed subdiaphragmatic peritonitis. Vrach. delo no.7:132-133 Jl'63. (MIRA 16:10)

1. Oblastnoy protivotuberkuleznyy dispanser g. Nikolayeva.
(TUBERCULOSIS) (PNEUMOPERITONEUM, ARTIFICIAL)
(PERITONITIS)

ZHIVAYEV, N. N.

Windbreaks, Shelterbelts, etc.

Foresters avoid the usual way of establishing shelterbelts. Les i step' 14
no. 5, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

ZHIVAYEV, F. A.

Fisheries - Sakhalin

Leaders of socialist competition on Sakhalin,. Ryb. khoz., 28, no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952. UNCLASSIFIED.

ZHIVAYEV, F. A.

Socialist Competition

Leaders of socialist competition on Sakhalin. Ryb. khoz. 28 no. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, UNCLASSIFIED.

PAKHOMOV, A.; BLINDER, I.; ZHIVAYEV, V. (Tashkent)

The further development of intercollective farm organizations. Vop.
ekon. no.1:141-153 Ja '61. (MIRA 13:12)
(Collective farms—Interfarm cooperation)

ZHIVAYEV, V.K.

Road construction in Uzbekistan is carried out by collective
farmers. Avt.dor. 23 no.7:26 Jl '60. (MIRA 13'?)
(Uzbekistan--Road construction)

BOBKOVА, T.P., prepodavatel' kursov kroyki i shit'ya; GURBO, A.I., prepodavatel' kursov kroyki i shit'ya; ZHIVAYEVA, Ye.I., prepodavatel' kursov kroyki i shit'ya; ZEMSKOVА, O.V., prepodavatel' kursov kroyki i shit'ya; LYSENKO, A.V., prepodavatel' kursov kroyki i shit'ya; MARTYNOWA, MARTOPLYAS, L.V., prepodavatel' kursov kroyki i shit'ya; PANOWA, V.P., prepodavatel' kursov kroyki i shit'ya; POMINOVA, M.G., prepodavatel' kursov kroyki i shit'ya; RYZHICHKINA, M.I., prepodavatel' kursov kroyki i shit'ya; SYCHEVA, T.A., prepodavatel' kursov kroyki i shit'ya; FILANOVICH, O.F., prepodavatel' kursov kroyki i shit'ya; BRUNEVSKAYA, M., red.; TRUKHANOVA, A., tekhn. red.

[Practical handbook on garment cutting and sewing] Prakticheskoe posobie po kroike i shit'iu. 4. izd. Minsk, Gos.izd-vo BSSR Red. nauchno-tekhn.lit-ry, 1961. 607 p. (MIRA 14:12)

1. Minskij Okruzhnoj Dom ofitserov im. K.Ye.Voroshilova i klub im. F.E.Dzerzhinskogo (for all except Brunevskaya, Trukhanova).
(Dressmaking—Pattern design) (Sewing)

S/032/62/028/002/029/037
B124/B101

AUTHORS: Zhivaykin, L. Ya., and Stavnitser, I. I.

TITLE: Setup for measuring the thickness of liquid films

PERIODICAL: Zavodskaya laboratoriya, v. 28, no. 2, 1962, 237-238

TEXT: The design of the new thickness-measuring device for liquid films on a transparent support, developed by the authors, is based on the dependence of the intensity of light transmitted by the film on its thickness at constant concentration of the colored solution. The light flow from bulb 1 (Fig. 1) passes through stop 2, condensing lens 3, and a filter 4, the color of which has been adapted to that of the liquid. The filter is used to obtain monochromatic light and eliminate selective absorption by the film. After passage through the wall of glass tube 5 and film 6, the light falls on the CdS photo resistance 7 of the type $\phi C-K1$ (FS-K1). The resulting impulses are measured with self-recording potentiometer 8 which, together with the bulb, is fed from voltage stabilizer 9. This potentiometer has to be calibrated specially for each liquid. The film

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Setup for measuring the thickness ...

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thickness can be calculated from the Nusselt equation $h = (3\nu Q/g)^{1/3}$,
where ν is the kinematic viscosity of the liquid (cm^2/sec), Q is the
volume of liquid consumed per unit width of flow (cm^2/sec), and g is the
gravitational acceleration (cm/sec^2). Experimental values of the thick-
ness of liquid water and glycerol-solution films agree well with results
obtained by other methods. There are 2 figures and 6 references: 2
Soviet and 4 non-Soviet. The four references to English-language
publications read as follows: I. I. Rossum, Chem. Eng. Sci. 11, 1, 35
(1959); A. E. Dukler, O. P. Bergelin, Chem. Eng. Progr. 48, 557 (1952);
R. Fallah, T. G. Hunter, A. W. Nosh, J. Soc. Chem. Ind. 53, 369 (1934);
C. G. Kirkbridge, Ind. Chem. Eng., 26, 425 (1934). ✓

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut
(Ural Scientific Research Institute of Chemistry)

Fig. 1. Schematic diagram of the device used to determine the thickness
of a liquid film.

Card 2/32

ZHIVAYKIN, L.Ya.; FEDIN, V.N.; SHEVCHUK, M.S.; BLYAKHER, I.G.

Effect of the concentration of monohydrate on the degree of absorption of sulfur trioxide. Khim.prom. no.7:505-506 Jl. '63.
(MIRA 16:11)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut i
Krasnoural'skiy medeplavil'nyy kombinat.

ZHIVAYKIN, L.Ya., inzh.

Thickness of the film of liquids in film-type apparatus.
KhIm. mash. no.6:25-29 N-D '61. (MIRA 15:2)
(Heat-Transmission)
(Films(Chemistry))

ZHIVAYKIN, L.Ya.; VOLGIN, B.P.

Hydrodynamics of the flow of thin liquid films. [Trudy]
UNIKHIM no.9:114-121 '61. (MIRA 15:12)
(Metallic films) (Fluid dynamics)

ZHIVAYKIN, L.Ya.; SOLOMEIN, S.K.

Hydraulic resistance of packed apparatus during the
descending cocurrent movement of phases. Zhur. VKHO
7 no.6:701-702 '62. (MIRA 15:12)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy
institut.
(Packed towers)

ZHIVAYKIN, L.Ya.; VOLGIN, B.P.

Hydraulic resistance in wetted-wall columns with a two-phase downflowing stream. Khim. prom. no.6:445-449 Je '63.

(MIRA 16:8)

(Scrubber (Chemical technology))
(Tubes--Fluid dynamics)

BARTOSEVICH, N.K.; ZHIVAYKIN, L.Ya.

Role of cooling elements in the increased operation rate of ovens
for pulverizing the roasting of pyrites. Sbor. mat. po obm. opyt.
NIUIF no.12:1-7 '59. (MIRA 16:12)

1. Zavod "Maardu" (for Bartosevich). 2. Ural'skiy nauchno-
issledovatel'skiy khimicheskiy institut (for Zhivaykin).

VOLGIN, B.P.; ZHIVAYKIN, L. Ya.; NORKINA, L.A.

Absorption of gases in multistage units from Venturi scrubbers.
Izv. vys. ucheb.zav., khim. i khim. tekhn. 7 no.5:852-854 '64
(MIRA 18:1)

1. Ural'skiy politekhnicheskiy institut imeni J.M. Kirova i
Ural'skiy nauchno-issledovatel'skiy institut khimii.

ZHIVAYKIN, L.Ya.; VOLGIN, B.P.

Determining the amount of liquid carried away from the surface of
a film by a gas flow. Inzh.-fiz.zhur. 4 no.8:114-116 Ag '61.
(MIRA 14:8)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut,
Sverdlovsk.
(Fluid dynamics)

ZHIVAYKIN, L.Ya.; STAVNITSER, I.I.

Device for measuring the thickness of thin layers of a viscous liquid. Zav.lab. 28 no.2:237-238 '62. (MIRA 15:3)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut.
(Films (Chemistry)) (Thickness measurement)

ZHIVAYKIN, L.Ya.; VOLGIN, B.P.

Hydraulic resistance of an ascending two-phase flowing liquid.
Zhur. VKHO 6 no.3:354-355 '61. (MIRA 14:6)

1. Ural'skiy nauchno-issledovatel'skiy khimicheskiy institut.
(Fluid dynamics)

ZHIVAYKIN, L.Ya.

Effect of the direction of the gas flow on the hydraulic resistance of
apparatus. Khim.prom. no.4:280-281 Ap '61. (MIRA 14:4)

(Chemical apparatus) (Gas flow)